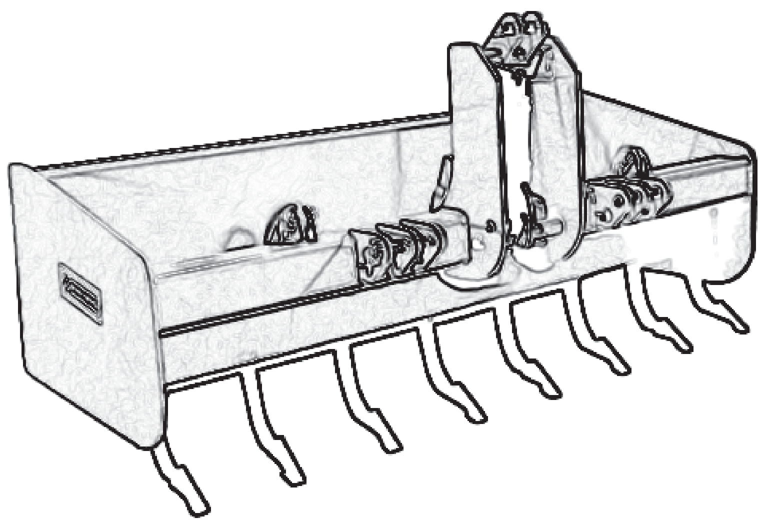
GEARMORE INC.

INDUSTRIAL BOX SCRAPERS



Operation, Parts & Service Manual For Models: 4G2, 4G4 and 4G5 Series

October 2011

Form: IndustrialScrprs.indd

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1 INTRODUCTION

This manual contains valuable information about your new Gearmore Industrial Scraper. It has been carefully prepared to give you helpful suggestions for operating, adjusting, servicing and ordering repair parts.

Keep this manual in a convenient place for quick and easy reference. Study it carefully. You have purchased a dependable and sturdy scraper, but only by proper care and operation can you expect to receive the service and long life designed and built into it.

Sometime in the future your scraper may need new parts to replace those that are worn or broken. If so, go to your dealer and provide him with the model and part number.

OPERATOR ORIENTATION - The directions left, right, front and rear, as mentioned throughout this manual, are as seen from the driver's seat and facing in the direction of travel.

1.1 PURCHASER'S RESPONSIBILITY

It is the responsibility of the purchaser and/or operator to.....

- Read and understand the information contained in this manual.
- Operate, lubricate, assemble and maintain the equipment in accordance with all instructions and safety procedures in this manual.
- Inspect the equipment and replace or repair any parts that are damaged or worn which under continued operation would cause damage, wear to other parts, or cause a safety hazard.
- Return the equipment or parts to the authorized dealer, from where it was purchased, for service or replacement of defective parts that are covered by warranty. (The factory may inspect equipment or parts before warranty claims are honored.)
- Payment of all costs incurred by the dealer for traveling to or transporting the equipment for warranty inspection and or claims.

NAME: ______________________________

PURCHASED FROM: ______________________________

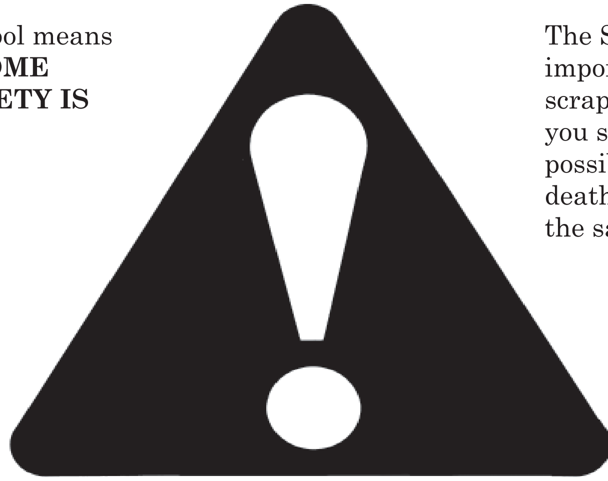
DATE OF PURCHASE: ______________________________

MODEL NUMBER: ______________________________

SERIAL NUMBER: ______________________________

SAFETY ALERT SYMBOL

This Safety Alert symbol means **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**



The Safety Alert symbol identifies important safety messages on the scraper and in the manual. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety message.

Why is SAFETY important to you?

3 Big Reasons

Accidents Disable and Kill
Accidents Cost
Accidents Can Be Avoided

SIGNAL WORDS:

Note the use of the signal words **DANGER, WARNING** and **CAUTION** with the safety messages. The appropriate signal word for each message has been selected using the following guide-lines:

SI NO LEE INGLES, PIDA AYUDA A AIGUIEN QUE SI LO LEA PARA QUE LE TRADUZCA LAS MIDIDAS DE SEGURIDAD.

DANGER - Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations typically for machine components which, for functional purposes, cannot be guarded.

WARNING - Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION - Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

If you have any questions not answered in this manual or require additional copies or the manual is damaged, please contact your dealer.

2.1 GENERAL SAFETY

YOU are responsible for the **SAFE** operation and maintenance of your scraper. **YOU** must ensure that you and anyone else who is going to operate, maintain or work around the scraper be familiar with the operating and maintenance procedures and related **SAFETY** information contained in this manual. This manual will take you step-by-step through your working day and alerts you to all good safety practices that should be adhered to while operating the scraper.

Remember, **YOU** are the key to safety. Good safety practices not only protect you, but also the people around you. Make these practices a working part of your safety program. Be certain that **EVERYONE** operating this equipment is familiar with the recommended operating and maintenance procedures and follows all the safety precautions. Most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.

- Scraper owners must give operating instructions to operators or employees before allowing them to operate the machine, and at least annually there after per OSHA (Occupational Safety and Health Administration) regulation 1928.57.

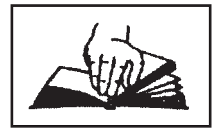
- The most important safety feature on this equipment is a **SAFE** operator. It is the operator's responsibility to read and understand **ALL** Safety and Operating instructions in the manual and to follow these. Most accidents can be avoided.

- A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes himself and bystanders to possible serious injury or death.

- **DO NOT** modify the equipment in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the equipment.

- **Think SAFETY! Work SAFELY!**

1. Read and understand the Operator's Manual and all safety signs before operating, maintaining, or adjusting the scraper.



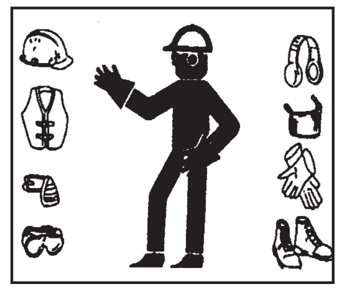
2. Have a first-aid kit available for use should the need arise and know how to use it.



3. Have a fire extinguisher available for use should the need arise and know how to use it.



4. Wear appropriate protective gear. This list includes but is not limited to:

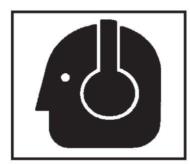


   - A hard hat
   - Protective shoes with slip resistant soles
   - Protective goggles, glasses or face shield
   - Heavy gloves
   - Protective clothing

5. Install and secure all guards before starting.

6. **DO NOT** allow riders.

7. Wear suitable ear protection for prolonged exposure to excessive noise.



8. Place all controls in neutral, stop tractor engine, set park brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting, repairing, or unplugging.

9. Clear the area of people, especially small children, before starting.

10. Review safety related items annually with all personnel who will be operating or maintaining the scraper.

2.2 EQUIPMENT SAFETY GUIDELINES

Safety of the operator and bystanders is one of the main concerns in designing and developing a scraper. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions in this section. To avoid personal injury or death, study the following precautions and insist those working with you, or for you, follow them.

- In order to provide a better view, certain photographs or illustrations in this manual may show an assembly with a safety shield removed. However, equipment should **never** be operated in this condition. Keep all shields in place. If shield removal becomes necessary for repairs, replace the shield prior to use.

- Replace any safety sign or instruction sign that is not readable or is missing.

- **NEVER** use alcoholic beverages or drugs which can hinder alertness or coordination while operating this equipment. Consult your doctor about operating this machine while taking prescription medications.

- **Under no circumstances should young children be allowed to work with this equipment. Do not allow persons to operate or assemble this unit until they have read this manual and have developed a thorough understanding of the safety precautions and of how it works. Review the safety instructions with all users annually.**

⚠ WARNING



Before operating your machine, stop and read this owners manual. Do not attempt to operate the unit until you fully understand the material covered in this manual. Without the knowledge contained in this manual, injury or death can result.

- This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible, properly trained and physically able person familiar with farm machinery and trained in this equipment's operations. If the elderly are assisting with farm work, their physical limitations need to be recognized and accommodated.

- Use a tractor equipped with a Roll Over Protective Structure (ROPS) and a seat belt.

- **NEVER** exceed the limits of a piece of machinery. If its ability to do a job, or to do so safely, is in question **- DON'T TRY IT.**

- Do not modify the equipment in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the equipment.

In addition to the design and configuration of this implement, including Safety Signs and Safety Equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of the machine. Refer also to Safety Messages and operation instruction in each of the appropriate sections of the tractor and machine manuals. Pay close attention to the Safety Signs affixed to the tractor and the scraper.

Don't hurry the learning process or take the unit for granted. Ease into it and become familiar with your new equipment. Practice operation of your equipment and its attachments. Completely familiarize yourself and other operators with its operations before using.

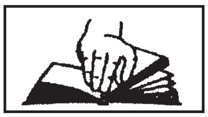
Think SAFETY! Work SAFELY!

2.3 SAFETY TRAINING

Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by a single careless act of an operator or bystander.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of this equipment.

It has been said, ***"The best safety feature is an informed, careful operator."*** We ask you to be that kind of an operator. It is the operator's responsibility to read and understand ALL Safety and Operating instructions in the manual and to follow these. Accidents can be avoided.



Working with unfamiliar equipment can lead to careless injuries. Read this manual, and the manual for your tractor, before assembly or operating, to acquaint yourself with the machines. If this machine is used by any person other than yourself, or is loaned or rented, it is the machine owner's responsibility to make certain that the operator, prior to operating:

a. Reads and understands the operator's manuals.

b. Is instructed in safe and proper use.

Should ownership of the equipment be transferred, this manual must also be transferred.

Know your controls and how to stop tractor, engine and machine quickly in an emergency. Read this manual and the one provided with your tractor.

Train all new personnel and review instructions frequently with existing workers. Be certain only a properly trained and physically able person will operate the machinery. A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes himself and bystanders to possible serious injury or death. If the elderly are assisting with farm work, their physical limitations need to be recognized and accommodated.

For any part of this manual that you do not understand, contact your dealer or Gearmore, Inc.

2.4 SAFETY SIGNS

1. Safety decals and this manual must be considered a permanent part of your equipment.

2. Keep safety signs clean and legible at all times.

3. Replace safety signs that are missing or have become illegible.

4. Replaced parts that displayed a safety sign should also display the current sign.

5. Safety signs are available from your authorized dealer or from Gearmore.

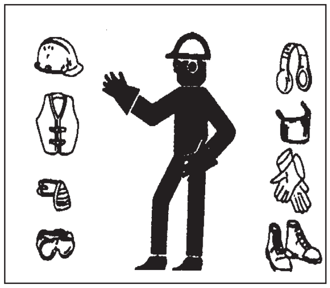
How To Install Safety Signs:

- Be sure that the installation area is clean and dry.
- Be sure temperature is above 50° F (10° C).
- Determine exact position before you remove the backing paper.
- Remove the smallest portion of the split backing paper.
- Align the sign over the specified area and carefully press the small portion with the exposed sticky backing in place.
- Slowly peel back the remaining paper and carefully smooth the remaining portion of the sign in place.
- Small air pockets can be pierced with a pin and smoothed out using the piece of sign backing paper.

2.5 PREPARATION

1. Never operate the tractor and machine until you have read and completely understand this manual, the Tractor Operator's Manual and each of the Safety Messages found on the safety signs on the tractor and scraper.

2. Personal protection equipment, including hard hat, safety glasses, safety shoes and gloves are recommended during assembly, installation, operation, adjustment, maintaining, repairing, removal or moving the implement. **DO NOT** allow long hair, loose fitting clothing or jewelry to be around equipment.



3. **PROLONGED EXPOSURE TO LOUD NOISE MAY CAUSE PERMANENT HEARING LOSS!** Tractors with or without equipment attached can often be noisy enough to cause permanent, partial hearing loss. We recommend that you wear hearing protection on a full-time basis if the noise in the Operator's position exceeds 80db. Noise over 85db on a long-term basis can cause severe hearing loss. Noise over 90db adjacent to the Operator over a long-term basis may cause permanent, total hearing loss.



   NOTE: Hearing loss from loud noise (from tractors, chain saws, radios, and other such sources close to the ear) is cumulative over a lifetime without hope of natural recovery.

4. Operate the mower only with a tractor equipped with an approved Roll-Over Protective Structure (ROPS). Always wear your seat belt. Serious injury or even death could result from falling off the tractor --- particularly during a turn-over when the operator could be pinned under the ROPS or the tractor.



5. The operator may come in contact with certain materials, which may require specific safety equipment, relative to the handling of such materials.

6. Clear the area of debris. Be sure there are no tools lying on or in the equipment. Do not use until you are sure that the area is clear, especially of children and animals.

7. Give the unit a visual inspection for any loose bolts, worn parts or cracked welds, and make necessary repairs. Follow the maintenance safety instructions included in this manual.

8. Keep wheel lug nuts or bolts tightened to specific torque. Assure that agricultural implement tires are evenly inflated.

9. Because it is possible that this equipment may be used in dry areas or in the presence of combustibles, special precautions should be taken to prevent fires and fire-fighting equipment should be readily available.

10. **Never** permit any person, other than the operator, to ride on board the tractor at any time.

11. **DO NOT** allow riders on implement at any time. Operate only in daylight or good artificial light. ALWAYS wera relatively tight and belted clothing when operating implement. Loose clothing should not be worn, as it could get caught in the moving parts or controls.

12. A minimum of 20% of the tractor and equipment weight must be on the tractors front wheels with the box scraper in transport position. Without this weight, the tractor could tip over causing personal injury or death. The weight may be attained with front wheel weights, ballast in tires or front tractor weights. When attaining the minimum 20% weight on the front wheels, you must not exceed the Roll Over Protection Structure (ROPS) weight certification. Weigh tractor and equipment. Do not guess or estimate.

2.6 OPERATIONAL SAFETY

The use of this equipment is subject to certain hazards that cannot be protected against by the mechanical means or product design. All operators of this equipment must read and understand this entire manual, paying particular attention to safety and operating instructions, prior to using. If there is something in this manual you do not understand, ask your supervisor, or your dealer, to explain it to you.

Most accidents occur because of neglect or carelessness. Keep all helpers and bystanders away from machine while working. Only properly trained people should operate this machine.

NO PASSENGERS ALLOWED - Do not carry passengers anywhere on, or in, the tractor or equipment, except as required for operation. There is no safe place for any riders.

Keep hands and clothing clear of moving parts.

When halting operation, even periodically, set the tractor or towing vehicle brakes, disengage the PTO, shut off the engine and remove the ignition key. Never leave equipment unattended with the tractor running.

Never stand alongside of unit with engine running or attempt to start engine and/or operate machine while standing alongside unit.

Keep hands and clothing clear of moving parts.

DO NOT clean, lubricate or adjust your equipment while it is moving.

DO NOT walk or work under raised components unless securely positioned and blocked.

Be especially observant of the operating terrain. Always inspect the area prior to operation. Stay alert for uneven terrain, holes, rocks, and roots and other hidden hazards. Keep away from drop-offs and hazards that could cause roll over.

Use extreme care and maintain minimum ground speed when transporting or operating on hillsides. Do not operate near the edge of drop offs or banks. Be careful and slow down when turning sharp corners and changing direction on slopes. Do not start or stop suddenly on slopes. Avoid operation on steep slopes. Practice will improve your skills in maneuvering on rough terrain. Always cut down slopes, never across the face. Always check tractor manual for proper use on slopes.

Always maneuver the equipment at safe speeds.

2.7 TRANSPORT SAFETY

1. Comply with state and local laws governing highway safety and movement of farm machinery on public roads. Never allow riders on tractor or implement.

2. The use of flashing amber lights is acceptable in most localities. However, some localities prohibit their use. Local laws should be checked for all highway lighting and marking requirements.

3. Various safety lights and devices are available from your dealer.

4. At all times, when driving the tractor and equipment on the road or highway under 20 mph (32 kph) use flashing amber warning lights and a slow moving vehicle (SMV) identification emblem. Do not exceed 20 mph (32 kph). Reduce speed on rough roads and surfaces.

5. Plan your route to avoid heavy traffic.

6. Always install transport locks, pins, or brackets before transporting.

7. Do not drink and drive.

8. Be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc. Watch for traffic when operating near or crossing roadways.

9. Turn into curves or go up or down hills only at a low speed and at a gradual steering angle. Make certain that at least 20% of the tractor's weight is on the front wheels to maintain safe steerage. Slow down on rough or uneven surfaces.

2.8 STORAGE SAFETY

Following operation, or when unhitching, stop the tractor or towing vehicle, set the brakes, disengage the PTO and all power drives, shut off the engine and remove the ignition keys.

1. Store the unit in an area away from human activity. Do not permit children to play on or around the stored unit.

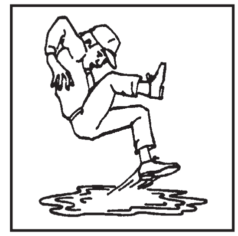
2. Do not park equipment where it can be exposed to direct contact to livestock for long periods of time. Damage and livestock injury could result.

3. Make sure all parked machines are on a hard, level surface and engage all safety devices. Wheel chocks may be needed to prevent unit from rolling.

2.9 MAINTENANCE SAFETY

1. Good maintenance is your responsibility. Poor maintenance is an invitation to trouble.

2. Follow good shop practices.
   - Keep service area clean and dry.
   - Be sure electrical outlets and tools are properly grounded.
   - Use adequate light for the job at hand.



3. Do not allow grease or oil to build up on any step or platform.

4. Before working on this machine, disengage PTO, shut off the engine, set the brakes, and remove the ignition key. Be certain all moving parts on attachments have come to a complete stop before attempting to perform maintenance.

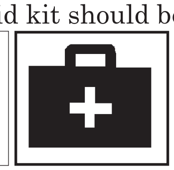
5. Always use a safety support to block the wheels. Use extreme caution when making adjustments.

6. Always use the proper tools or equipment for the job at hand. Use personal protection devices such as eye, hand, and hearing protectors, when performing any service or maintenance work.

7. Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts **must** be used to restore your equipment to original specifications. The manufacturer will not be responsible for injuries or damages caused by use of unapproved parts and/or accessories.

8. A fire extinguisher and first aid kit should be kept readily accessible while performing maintenance on this equipment





9. Never use your hand to locate a hydraulic leak on attachments. Use a small piece of cardboard or wood. Hydraulic fluid escaping under pressure can penetrate the skin. Openings in the skin and minor cuts are susceptible to infection from hydraulic fluid. If injured by the escaping hydraulic fluid, see a doctor at once. Without immediate medical treatment, serious infection can occur.

10. When completing a maintenance or service function, be sure all tools, parts, and service equipment are removed from scraper, and make sure all safety shields and devices are installed before placing unit in service.

3 ASSEMBLY & OPERATION

3.1 ATTACHING UNIT

WARNING - NEVER STAND BETWEEN TRACTOR AND SCRAPER WHILE BACKING UP TRACTOR TO THE HITCH.

1. Attach box scraper to 3-point hitch lower lift arms (using pins supplied).
2. Attach 3-point hitch top link to a-frame mast on scraper (using pin supplied).
3. Make sure the box scraper is sitting on the ground and the tractors' safety device is set.
4. Install fittings to the hydraulic cylinder. (Dealer supplied)
5. Install quick couplers to hydraulic hoses. Connect hoses to fittings on cylinder and couple other end to tractor hydraulic valve. (Dealer supplied)
6. Crack fitting on cylinder and cycle in order to remove air from the system.
7. Raise scraper off the ground with tractor 3-point hitch.
8. Extend cylinder to raise shank bar to upper position.
9. Retract cylinder to lower shank bar to working position.

   IMPORTANT! Be certain to check that the bell crank has fully engaged onto the frame lock hook to avoid pressure on the cylinder and linkage when in use.

Periodically tighten all bolts and nuts to ensure scraper is in a safe working condition.

3.2 OPERATING INSTRUCTIONS

A Box Scraper's primary purpose is grading and levelling.

With the ripper shanks raised all the way up, lower the box scraper to the ground and proceed forward. It should immediately begin shaving the soil surface and dirt or aggregate material should begin accumulating in the box.

Transfer this material by dragging it to a nearby location and then raise the scraper to deposit your load. You can also achieve uniform distribution and levelling of scraped material by setting the scraper to shave off high spots allowing accumulated material to flow out under the scraper in the low spots.

Achieving the desired effect will require a little experimentation and experience in your given conditions. Box scrapers generally perform better in dry to slightly damp soil conditions.

Your Box Scraper can also be used for backfilling applications. Simply lower your scraper and back the standard rear facing grader blade into the pile of dirt you are using for backfill. Continue backfilling and pushing operations until you have successfully completed the task.

With a little practice you should become a very good operator and consistently achieve the desired results you expect.

4 SERVICE & MAINTENANCE

4.1 SERVICING INSTRUCTIONS

Lower box scraper to ground, set tractor locking system device, turn tractor engine off, and remove key before performing any service or maintenance. Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to original specifications. The manufacturer will not claim responsibility for use of unapproved parts and/or accessories and other damages as a result of their use.

- Block box scraper securely before working underneath.
- When disconnecting hydraulic lines, shut off hydraulic supply and relieve all hydraulic pressure.
- Never replace hex bolts with less than grade five bolts unless otherwise specified.
- Periodically tighten all bolts and nuts to ensure scraper is in a safe working condition.
- Before operating the scraper, always check to make sure that the lynch pins are in the lock position, so that the lift pins do not work their way out.
- Keep all persons away from operator control area while performing adjustments, service or maintenance.

4.2 CUTTING EDGE REPLACEMENT

Cutting edges are reversible so always remember to "flip" them over before wearing the back plate. Replace the cutting edge after both edges are worn to the bottom edge of the back plate.

For reversing the cutting edge:

- Remove ⅝" plow bolts
- Remove cutting edge from moldboard and reinstall with sharp edge down
- Replace when both edges are worn out

4.3 REPLACEABLE SHANK TIP

Make sure you replace the point before you wear the drop forged shank. Knock off the worn point and lock the new point in place by "crimping" at the recessed holes in the shank.

4.4 SHANKS

Shanks have a shallow or deep setting. When changing positions, make sure the shank retainer is "seated" properly in the beam. We have a special flat bottom retainer that should always stay in place if installed properly.

4.5 BOLTS AND TORQUE SPECIFICATIONS

BOLTS -

Keep all the bolts tight at all times by checking them periodically. Replace the bolts only with those having the same marks on the heads as on original bolt. Marks on bolt head indicate high strength.

BOLT	MINIMUM	MAXIMUM
⅝"	150 ft./lbs.	180 ft./lbs.

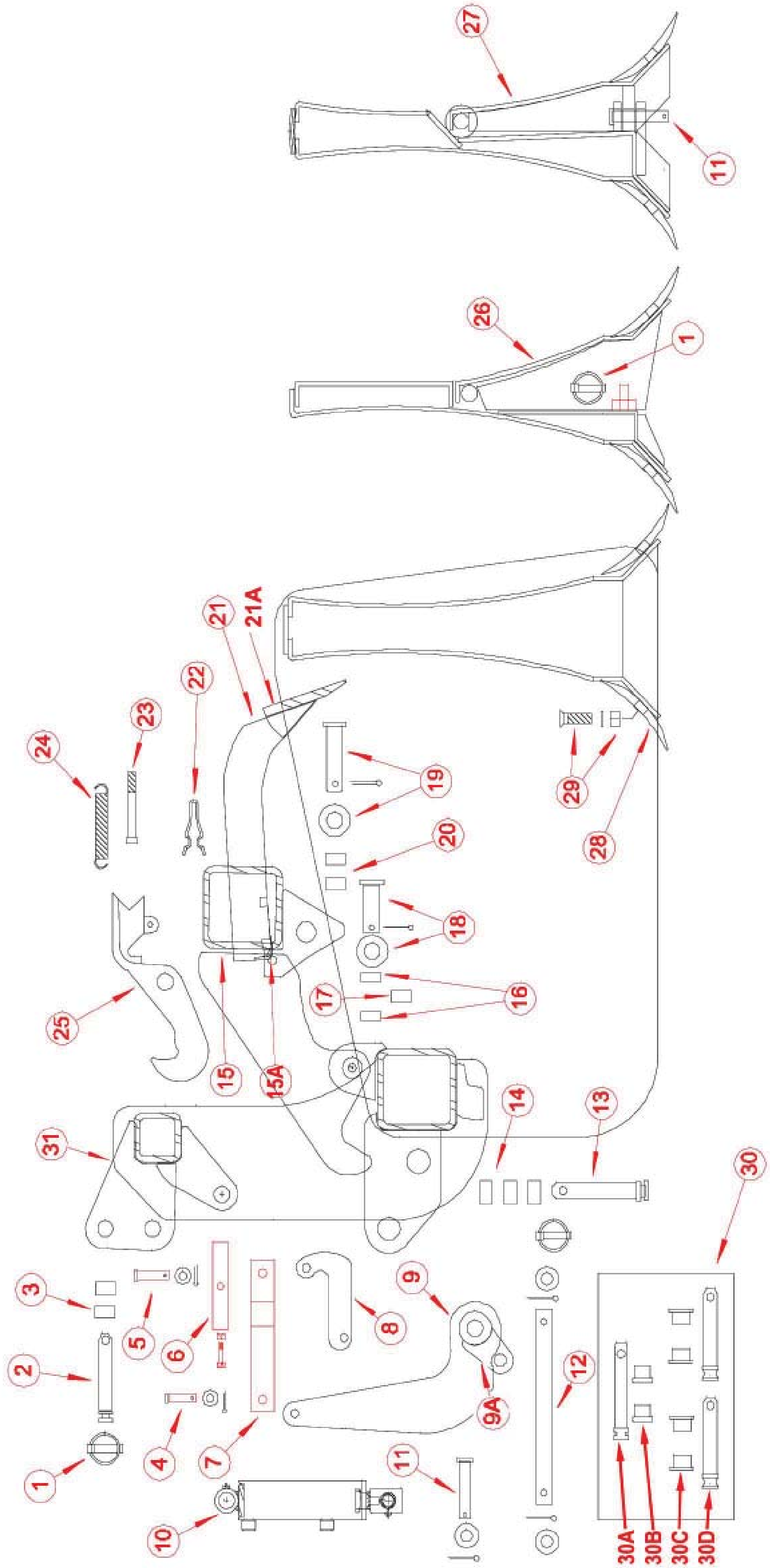
4.6 LUBRICATION

BELL CRANK -

Lubricate bell crank ***every 50 hours*** of use.

5 REPLACEMENT PARTS

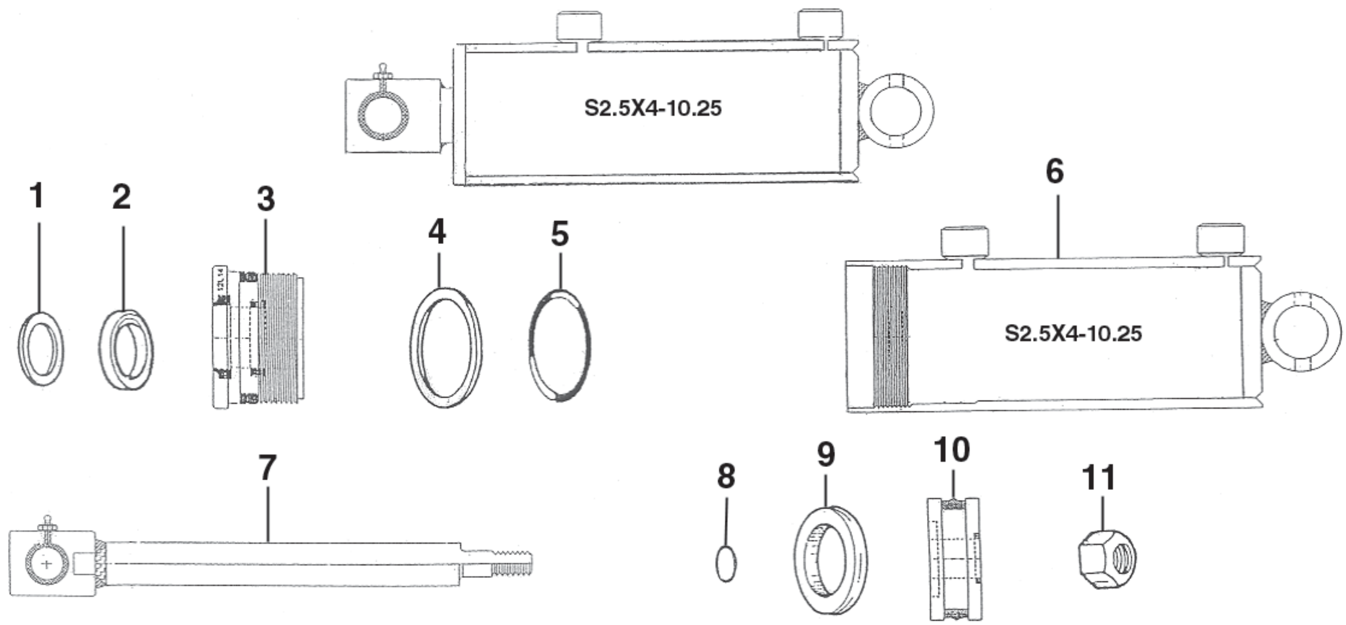
5.1 4G2, 4G4 & 4G5 PARTS DRAWING



5.2 4G2, 4G4 & 4G5 PARTS LIST

REF #	QTY.	PART NO.	DESCRIPTION
1	3	P716175LY	Hitch Pin Clip/Tailboard Pin Clip
2	1	P100500C2TL	Cat. 2 Top Link Pin
3	2	HB125075	top Link Ear Bushing
4	1	P050175CL	Upper Link Pin
5	1	P050200CL	Lower Link Pin
6	1	R05A003	Top Cylinder Pin
7	1	P04A01A	Bell Crank Link
8	1	P12A14A	J-Link Assembly
9	1	P04A71A	Bell Crank Assembly
9A		FTN516G	Grease Zerk Drive-in 5/16
10	1	S2.5X4-10.25	Hydraulic Lift Cylinder
11	1	P075300CL	Lower Cylinder Pin/Tailboard Pin
12	1	R05A01912	Bell Crank Shaft
13	2	P118500C2D	Cat. 2 Draw Pin
14	6	HB176075	Draw Link Ear Bushing
15	1	Call for Part #	Shank Bar Assembly
15A		SBA1	Shank Wear Bracket
16	4	HBA25050	Pivot Plate Ear Bushing
17	2	HB125075	Pivot Plate Bushing
18	2	P100258CLP	Pivot Pin
19	1	P100358CL	Hook Pin
20	2	HB125075	Hook Ear Bushing
21	8	G163	Industrial Shank
21A		RPS76931	Point
22	8	SR100	Shank Retainer Clip
23	1	B050400ZP	Shear Pin
24	1	S075500HD	Hook Spring
25	1	P08A001A	Industrial Hook Assembly
26		Call for Part #	Tailboard Assembly
27		Call for Part #	Hinged Tailboard Assembly
28	1	CE72I	Industrial Cutting Edge 72"
28	1	CE76I	Industrial Cutting Edge 76"
28	1	CE80I	Industrial Cutting Edge 80"
28A	1	CE80I-8	Optional Industrial Cutting Edge 80" - 8"
28	1	CE84I	Industrial Cutting Edge 84"
28A	1	CE84I-8	Optional Industrial Cutting Edge 84" - 8"
28	1	CE88I	Industrial Cutting Edge 88"
28A	1	CE88I-8	Optional Industrial Cutting Edge 88" - 8"
28	1	CE96I	Industrial Cutting Edge 96"
29	8	GR85/8X2	Plow Bolt
29	8	GR85/8NC	Nut
30		PK100	Cat. 1 Kit (Optional)
30A		P075600C1PC	Cat. 1 Pin 3/4 x 6
30B		HB100075	Bushing Cat. 2 to Cat. 1 Upper
30C		HB118078	Bushing Cat. 2 to Cat. 1 Lower
30D		P078550MD	Draw Pin Cat. 1 Lower
31		T06A31A	Mast Spacer New

5.3 S2.5X4-10.25 CYLINDER PARTS



REF #	QTY.	PART NO.	DESCRIPTION
1	1	IT25RW	Rod Wiper
2	1	IT25US	Shaft Packing
3	1	IT25E	Head
4	1	IT25BU	Back Up
5	1	IT25HO	O-Ring
6	1	S25410.25C	Tube Assembly
7	1	S25410.25S	Shaft Assembly
8	1	IT25SO	Small O-Ring
9	1	IT25CS	Crown Seal
10	1	IT25V	Piston
11	1	IT25N	Piston Lock Nut
12	1	SK2.5-6	Seal Kit (Not Shown) (S2.5X4-10.25)
12A	1	644340	Seal Kit (Not Shown) (644748)

* Cylinder identification either stamped on barrel S2.5X4-10.25 or label with #644748

6 LIMITED WARRANTY

GEARMORE INC.

GEARMORE, INC., warrants each new Gearmore product to be free from defects in material and workmanship for a period of twelve (12) months from date of purchase to the original purchaser. This warranty shall not apply to implements or parts that have been subject to misuse, negligence, accident, or that have been altered in any way.

Our obligation shall be limited to repairing or replacement of any part, provided that such part is returned within thirty (30) days from date of failure to Gearmore through the dealer from whom the purchase was made, transportation charges prepaid.

This warranty shall not be interpreted to render us liable for injury or damages of any kind or nature, direct, consequential or contingent, to person or property. This warranty does not extend to loss of crops, loss because of delay in harvesting or any other expenses, for any other reasons.

Gearmore in no way warranties engines, tires, or other trade accessories, since these items are warranted separately by these respective manufacturers.

Gearmore reserves the right to make improvements in design or changes in specification at any time, without incurring any obligations to owners or units previously sold.

Please be advised that all warranty work done by your dealer must be approved by Gearmore before work begins.

GEARMORE, INC.
13477 Benson Ave.
Chino, CA 91710

Always refer to and heed machine operating warning decals on machine.

The serial number of this product is stored in our computer database, thus submitting a warranty registration card is not required.